AMENDMENTS TO THE CLAIMS

1   1.   (Previously Presented) A method of modifying a subscription of a subscriber to one
2   or more telecommunications services based on subscriber information and service
3   information that are stored in a directory repository, the method comprising the
4   computer-implemented steps of:
5   determining whether the subscriber is currently logged in, and if the subscriber is not
6   currently logged in, directing the subscriber to log in through an
7   authentication server and generating, by an authorization service, a privilege
8   token associated with the authenticated subscriber that includes subscriber
9   privilege information, wherein said authorization service is separate from said
10   authentication server;
11   receiving a modification request to modify the subscription of the subscriber to the
12   one or more telecommunication services;
13   determining, based on subscriber privilege information in the privilege token
14   associated with the subscriber generated by the authorization service, whether
15   the subscriber has privileges sufficient to carry out the requested modification;
16   if the subscriber is determined to have sufficient privileges, then performing the steps
17   of:
18   receiving, from the directory repository, first subscriber information and first
19   service information representing only such services for which the
20   subscriber is then currently subscribed;
21   modifying the first subscriber information and first service information to
22   reflect the modification;
23   sending the modified information to the directory repository, resulting in
24   creating and storing, in the directory repository, second service
25   information that reflects the modification;
26   generating an engagement request to engage the telecommunications service
27   for the subscriber in order to fulfill the modification request.

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1 2. (Previously Presented) A method as recited in Claim 1, wherein the authorization
2   service generates the privilege token by the steps of:
3   receiving a user name associated with the subscriber and mapping the user name to a
4   distinguished name in the directory repository;
5   creating and storing as subscriber privilege information in the privilege token one or
6   more roles occupied by the subscriber based on role information that is stored
7   in the directory repository, said stored role information including mapping
8   information that maps a role to one or more privileges that specify which
9   telecommunications services a subscriber having that role can subscribe to.

1 3. (Previously Presented) A method as recited in Claim 1, wherein the step of
2   determining whether the subscriber is currently logged in comprises determining
3   whether a host object that uniquely identifies the subscriber exists, and wherein the
4   privilege token associated with the subscriber is stored with the host object that
5   uniquely identifies the subscriber.

1 4. (Previously Presented) A method as recited in Claim 1, wherein the step of generating
2   an engagement request comprises the steps of subscribing the subscriber to the
3   service by creating and storing a relation of a subscriber object that programmatically
4   represents the subscriber to a service object that programmatically represents the
5   service, and creating and storing one or more attribute values in the relation, wherein
6   the attribute values define the subscription.

1 5. (Currently Amended) A method of modifying subscriptions of a group of subscribers
2   to one or more telecommunications services based on ~~subscriber~~ information ~~and~~
3   ~~service information that are~~ stored in a directory repository, the method comprising
4   the computer-implemented steps of:
5   receiving from an administrator of the group, a request to modify the subscriptions of
6   the group of subscribers to the one or more telecommunications services;

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7   determining, based on subscriber privilege information in a privilege token that is

8   associated with the administrator and is generated by an authorization service,

9   whether the administrator has privileges sufficient to carry out the requested

10   modification;

11   if the administrator is determined to have sufficient privileges, then performing the

12   steps of:

13   receiving, from the directory repository, current subscriber information and

14   current service information representing then-current services to which

15   the group of subscribers are subscribed;

16   modifying the subscriber information and the service information to reflect the

17   modifications, resulting in creating and storing, in the directory

18   repository, updated service information that reflects the modifications;

19   generating one or more requests to subscribe ~~the~~ a telecommunications service

20   to the group of subscribers to fulfill the request of the administrator.

1 6.   (Original) A method as recited in Claim 5, wherein the group of subscribers is

2   defined explicitly by creating and storing a named group that contains one or more

3   subscribers as group members.

1 7.   (Original) A method as recited in Claim 5, wherein the group of subscribers is

2   defined implicitly such that the group comprises one or more subscribers in an object

3   tree of the directory repository who are subordinate in the tree to a container node of

4   the tree.

1 8.   (Currently Amended) A method as recited in Claim 5, further comprising the steps of

2   subscribing one of the subscribers in the group to the telecommunications service by

3   creating and storing a relation of a subscriber object that programmatically represents

4   the subscriber to a service object that programmatically represents the

5   telecommunications service, and creating and storing one or more attribute values in

6   the relation, wherein the attribute values define the subscription.

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1   9.   (Previously Presented) A method of automatically logging in a subscriber to all

2   telecommunications services subscribed to by the subscriber based on subscriber

3   information and service information that are stored in a directory repository, the

4   method comprising the computer-implemented steps of:

5   receiving a request from the subscriber to log in to the telecommunications services;

6   authenticating the subscriber by an authentication server;

7   generating a privilege token associated with the subscriber by an authorization

8   service, said privilege token including subscriber privilege information,

9   wherein said authorization service is separate from said authentication server;

10   determining whether the subscriber is allowed to automatically log into the

11   telecommunication services, said determination based on subscriber privilege

12   information in the privilege token associated with the subscriber;

13   if the subscriber is allowed to automatically log into the telecommunications services,

14   receiving, from the directory repository, a list of all services for which the

15   subscriber is then currently subscribed, and automatically logging the

16   subscriber into all services identified in the list.

1   10.   (Original) A method as recited in Claim 9, wherein automatically logging the

2   subscriber into all services identified in the list comprises the steps of:

3   for each of the services identified in the list:

4   obtaining service information that describes the services from the directory

5   repository;

6   creating and storing a relation between a service object in the directory

7   repository that uniquely identifies and represents each of the services

8   and privileges of the subscriber, and a subscriber object that uniquely

9   represents the subscriber.

1   11.   (Original) A method as recited in Claim 10, further comprising the steps of storing

2   the privilege token in a service selection gateway for use in subsequent authorization

3   processes relating to the subscriber.

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1 · 12.   (Canceled)

1   13.   (Currently Amended) A method of automatically subscribing a subscriber to a
2   telecommunications service based on ~~subscriber~~ information ~~and service information~~
3   ~~that are~~ stored in a directory repository, the method comprising the computer-
4   implemented steps of:
5   receiving a request from the subscriber to obtain a list of available
6   telecommunications services;
7   generating a list of only those telecommunications services for which the subscriber
8   has [[a]] privilege_s to subscribe to, based on privilege information and service
9   information that is stored in the directory repository and associated with the
10   subscriber, said privilege information associated with the subscriber
11   specifying what telecommunications services the subscriber has privileges to
12   subscribe to;
13   receiving a subscriber selection of one of the telecommunications services from the
14   generated list of telecommunications services;
15   verifying that the subscriber has privileges that permit the subscriber to subscribe to
16   the selected telecommunications service;
17   creating and storing updated subscription information in the directory repository;
18   generating a request to subscribe the subscriber to the selected telecommunications
19   service based on the updated subscription information.

1   14.   (Previously Presented) A method as recited in Claim 13, wherein said privilege
2   information associated with the subscriber is comprised of a privilege token for the
3   subscriber that identifies a role of the subscriber, wherein the privileges of the
4   subscriber to subscribe to a telecommunications service is determined by the role in
5   the privilege token for the subscriber.

1   15.   (Currently Amended) A method as recited in Claim 13, wherein generating [[a]] the
2   list of only those telecommunications services for which the subscriber has [[a]]

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3   privileges to subscribe to includes the step of generating and providing to the

4   subscriber a custom display page that identifies only those telecommunications

5   services for which the subscriber has [[a]] privileges to subscribe to.

1   16.   (Previously Presented) A computer-readable medium carrying one or more sequences

2   of instructions for modifying a subscription of a subscriber to one or more

3   telecommunications services based on subscriber information and service information

4   that are stored in a directory repository, which instructions, when executed by one or

5   more processors, cause the one or more processors to carry out the steps of:

6   determining whether the subscriber is currently logged in, and if the subscriber is not

7   currently logged in, directing the subscriber to log in through an

8   authentication server and generating, by an authorization service, a privilege

9   token associated with the authenticated subscriber that includes subscriber

10   privilege information, wherein said authorization service is separate from said

11   authentication server;

12   receiving a modification request to modify the subscription of the subscriber to the

13   one or more telecommunications services;

14   determining, based on subscriber privilege information in the privilege token

15   associated with the subscriber generated by the authorization service, whether

16   the subscriber has privileges sufficient to carry out the requested modification;

17   if the subscriber is determined to have sufficient privileges, the one or more

18   sequences of instructions which, when executed, further cause the one or more

19   processors to carry out the steps of:

20   receiving, from the directory repository, first subscriber information and first

21   service information representing only such services for which the

22   subscriber is then currently subscribed;

23   modifying the first subscriber information and first service information to

24   reflect the modification;

25   sending the modified information to the directory repository, resulting in

26   creating and storing, in the directory repository, second service

27   information that reflects the modification;

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28   generating an engagement request to engage the telecommunications service

29   for the subscriber in order to fulfill the modification request.

1   17.   (Previously Presented) An apparatus for modifying a subscription of a subscriber to

2   one or more telecommunications services based on subscriber information and service

3   information that are stored in a directory repository, comprising:

4   means for determining whether the subscriber is currently logged in, and if the

5   subscriber is not currently logged in, means for directing the subscriber to log

6   in through an authentication server and means for generating a privilege token

7   associated with the authenticated subscriber by an authorization service, said

8   privilege token including subscriber privilege information, wherein said

9   authorization service is separate from said authentication server;

10   means for receiving a modification request to modify the subscription of the

11   subscriber to the one or more telecommunications services;

12   means for determining, based on subscriber privilege information in the privilege

13   token associated with the subscriber generated by the authorization service,

14   whether the subscriber has privileges sufficient to carry out the requested

15   modification;

16   means for receiving, from the directory repository, first subscriber information and

17   first service information representing only such services for which the

18   subscriber is then currently subscribed;

19   means for modifying the first subscriber information and first service information to

20   reflect the modification;

21   means for sending the modified information to the directory repository, resulting in

22   creating and storing, in the directory repository, second service information

23   that reflects the modification;

24   means for generating an engagement request to engage the telecommunications

25   service for the subscriber in order to fulfill the modification request.

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1 18. (Previously Presented) An apparatus for modifying a subscription of a subscriber to
2   one or more telecommunications services based on subscriber information and service
3   information that are stored in a directory repository, comprising:
4   a network interface that is coupled to a data network that includes the directory
5   repository for receiving information therefrom;
6   a processor;
7   one or more stored sequences of instructions which, when executed by the processor,
8   cause the processor to carry out the steps of:
9   determining whether the subscriber is currently logged in, and if the
10   subscriber is not currently logged in, directing the subscriber to log in
11   through an authentication server and generating, by an authorization
12   service, a privilege token associated with the authenticated subscriber
13   that includes subscriber privilege information, wherein said
14   authorization service is separate from said authentication server;
15   receiving a modification request to modify the subscription of the subscriber
16   to the one or more telecommunications services;
17   determining, based on subscriber privilege information in the privilege token
18   associated with the subscriber that is generated by the authorization
19   service, whether the subscriber has privileges sufficient to carry out
20   the requested modification;
21   if the subscriber is determined to have sufficient privileges, the one or more
22   sequences of instructions which, when executed, further cause the
23   processor to:
24   receiving, from the directory repository, first subscriber information
25   and first service information representing only such services
26   for which the subscriber is then currently subscribed;
27   modifying the first subscriber information and first service information
28   to reflect the modification;

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29   sending the modified information to the directory repository, resulting

30   in creating and storing, in the directory repository, second

31   service information that reflects the modification;

32   generating an engagement request to engage the telecommunications

33   service for the subscriber in order to fulfill the modification

34   request.

1   19.   (Currently Amended) A method of modifying a subscription of a subscriber to a

2   telecommunications service based on information stored in a directory repository, the

3   method comprising the computer-implemented steps of:

4   receiving a request to identify one or more services to which [[a]] the subscriber is

5   subscribed, based on a prior request to modify the subscription of the

6   subscriber to the telecommunications service;

7   generating a list of the one or more services to which the subscriber is currently

8   subscribed, based on group membership of the subscriber, one or more roles

9   occupied by the subscriber, and authorization information associated with the

10   subscriber that is stored in the directory repository, wherein said one or more

11   roles are mapped to one or more privileges that specify which

12   telecommunications services a subscriber having that role can subscribe to;

13   generating individual service information for each of the one or more services in the

14   list, based on subscriber information and service information that is stored in

15   the directory repository, for use in automatically subscribing the subscriber to

16   a service that is represented by the individual service information.

1   20.   (Currently Amended) A computer-readable medium carrying one or more sequences

2   of instructions for modifying a subscription of a subscriber to a telecommunications

3   service based on subscriber information and service information that are stored in a

4   directory repository, which instructions, when executed by one or more processors,

5   cause the one or more processors to carry out the steps of:

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6   receiving a request to identify one or more services to which [[a]] the subscriber is

7   subscribed, based on a prior request to modify the subscription of the

8   subscriber to the telecommunications service;

9   generating a list of the one or more services to which the subscriber is currently

10   subscribed, based on group membership of the subscriber, one or more roles

11   occupied by the subscriber, and authorization information associated with the

12   subscriber that is stored in the directory repository, wherein said one or more

13   roles are mapped to one or more privileges that specify which

14   telecommunications services a subscriber having that role can subscribe to;

15   generating individual service information for each of the one or more services in the

16   list, based on subscriber information and service information that is stored in

17   the directory repository, for use in automatically subscribing the subscriber to

18   a service that is represented by the individual service information.

1   21.   (Currently Amended) An apparatus for modifying a subscription of a subscriber to a

2   telecommunications service based on ~~subscriber~~ information ~~and service information~~

3   ~~that are~~ stored in a directory repository, comprising:

4   means for receiving a request to identify one or more services to which [[a]] the

5   subscriber is subscribed, based on a prior request to modify the subscription of

6   the subscriber to the telecommunications service;

7   means for generating a list of the one or more services to which the subscriber is

8   currently subscribed, based on group membership of the subscriber, one or

9   more roles occupied by the subscriber, and authorization information

10   associated with the subscriber that is stored in the directory repository,

11   wherein said one or more roles are mapped to one or more privileges that

12   specify which telecommunications services a subscriber having that role can

13   subscribe to;

14   means for generating individual service information for each of the one or more

15   services in the list, based on subscriber information and service information

16   that is stored in the directory repository, for use in automatically subscribing

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17   the subscriber to a service that is represented by the individual service

18   information.

1 22. (Currently Amended) An apparatus for modifying a subscription of a subscriber to a

2   telecommunications service based on ~~subscriber~~ information ~~and service information~~

3   ~~that are~~ stored in a directory repository, comprising:

4   a directory-enabled service selection framework that is coupled to the directory

5   repository for receiving stored information therefrom;

6   a processor;

7   one or more stored sequences of instructions in the framework which, when executed

8   by the processor, cause the processor to carry out the steps of:

9   receiving a request to identify one or more services to which [[a]] the

10   subscriber is subscribed, based on a prior request to modify the

11   subscription of the subscriber to the telecommunications service;

12   generating a list of the one or more services to which the subscriber is

13   currently subscribed, based on group membership of the subscriber,

14   one or more roles occupied by the subscriber, and authorization

15   information associated with the subscriber that is stored in the

16   directory repository, wherein said one or more roles are mapped to one

17   or more privileges that specify which telecommunications services a

18   subscriber having that role can subscribe to;

19   generating individual service information for each of the one or more services

20   in the list, based on subscriber information and service information

21   that is stored in the directory repository, for use in automatically

22   subscribing the subscriber to a service that is represented by the

23   individual service information.

1 23. (New) An apparatus for modifying subscriptions of a group of subscribers to one or

2   more telecommunications services based on information stored in a directory

3   repository, comprising:

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4   a network interface that is coupled to a data network that includes the directory

5   repository for receiving information therefrom;

6   a processor; and

7   one or more stored sequences of instructions which, when executed by the processor,

8   cause:

9   receiving from an administrator of the group, a request to modify the

10   subscriptions of the group of subscribers to the one or more

11   telecommunications services;

12   determining, based on subscriber privilege information in a privilege token

13   that is associated with the administrator and is generated by an

14   authorization service, whether the administrator has privileges

15   sufficient to carry out the requested modification; and

16   if the administrator is determined to have sufficient privileges, then

17   performing the steps of:

18   receiving, from the directory repository, current subscriber information

19   and current service information representing then-current

20   services to which the group of subscribers are subscribed;

21   modifying the subscriber information and the service information to

22   reflect the modifications, resulting in creating and storing, in

23   the directory repository, updated service information that

24   reflects the modifications; and

25   generating one or more requests to subscribe a telecommunications

26   service to the group of subscribers to fulfill the request of the

27   administrator.

1   24.   (New) An apparatus as recited in Claim 23, wherein the group of subscribers is

2   defined explicitly by creating and storing a named group that contains one or more

3   subscribers as group members.

1   25.   (New) An apparatus as recited in Claim 23, wherein the group of subscribers is

2   defined implicitly such that the group comprises one or more subscribers in an object

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3   tree of the directory repository who are subordinate in the tree to a container node of

4   the tree.

1 26.   (New) An apparatus as recited in Claim 23, wherein the one or more stored sequences

2   of instructions further comprise instructions which, when executed by the processor

3   cause subscribing one of the subscribers in the group to the telecommunications

4   service by creating and storing a relation of a subscriber object that programmatically

5   represents the subscriber to a service object that programmatically represents the

6   telecommunications service, and creating and storing one or more attribute values in

7   the relation, wherein the attribute values define the subscription.

1 27.   (New) An apparatus for modifying subscriptions of a group of subscribers to one or

2   more telecommunications services based on information stored in a directory

3   repository, comprising:

4   means for receiving from an administrator of the group, a request to modify the

5   subscriptions of the group of subscribers to the one or more

6   telecommunications services;

7   means for determining, based on subscriber privilege information in a privilege token

8   that is associated with the administrator and is generated by an authorization

9   service, whether the administrator has privileges sufficient to carry out the

10   requested modification;

11   means for receiving, from the directory repository, current subscriber information and

12   current service information representing then-current services to which the

13   group of subscribers are subscribed;

14   means for modifying the subscriber information and the service information to reflect

15   the modifications, resulting in creating and storing, in the directory repository,

16   updated service information that reflects the modifications; and

17   means for generating one or more requests to subscribe a telecommunications service

18   to the group of subscribers to fulfill the request of the administrator.

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1 28. (New) An apparatus as recited in Claim 27, wherein the group of subscribers is

2 defined explicitly by creating and storing a named group that contains one or more

3 subscribers as group members.

1 29. (New) An apparatus as recited in Claim 27, wherein the group of subscribers is

2 defined implicitly such that the group comprises one or more subscribers in an object

3 tree of the directory repository who are subordinate in the tree to a container node of

4 the tree.

1 30. (New) An apparatus as recited in Claim 27, further comprising means for subscribing

2 one of the subscribers in the group to the service by creating and storing a relation of

3 a subscriber object that programmatically represents the subscriber to a service object

4 that programmatically represents the service, and means for creating and storing one

5 or more attribute values in the relation, wherein the attribute values define the

6 subscription.

1 31. (New) An apparatus for automatically logging in a subscriber to all

2 telecommunications services subscribed to by the subscriber based on subscriber

3 information and service information that are stored in a directory repository,

4 comprising:

5 a network interface that is coupled to a data network that includes the directory

6 repository for receiving information therefrom;

7 a processor; and

8 one or more stored sequences of instructions which, when executed by the processor,

9 cause:

10 receiving a request from the subscriber to log in to the telecommunications

11 services;

12 authenticating the subscriber by an authentication server;

13 generating a privilege token associated with the subscriber by an authorization

14 service, said privilege token including subscriber privilege

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15   information, wherein said authorization service is separate from said

16   authentication server;

17   determining whether the subscriber is allowed to automatically log into the

18   telecommunication services, said determination based on subscriber

19   privilege information in the privilege token associated with the

20   subscriber; and

21   if the subscriber is allowed to automatically log into the telecommunications

22   services, receiving, from the directory repository, a list of all services

23   for which the subscriber is then currently subscribed, and

24   automatically logging the subscriber into all services identified in the

25   list.

1 32.   (New) An apparatus as recited in Claim 31, wherein the instructions that cause

2   automatically logging the subscriber into all services identified in the list further

3   comprise instructions which, when executed by the processor, cause for each of the

4   services identified in the list:

5   obtaining service information that describes the services from the directory

6   repository; and

7   creating and storing a relation between a service object in the directory repository that

8   uniquely identifies and represents each of the services and privileges of the

9   subscriber, and a subscriber object that uniquely represents the subscriber.

1 33.   (New) An apparatus as recited in Claim 31, wherein the one or more stored sequences

2   of instructions further comprise instructions which, when executed by the processors,

3   cause storing the privilege token in a service selection gateway for use in subsequent

4   authorization processes relating to the subscriber.

1 34.   (New) An apparatus for automatically logging in a subscriber to all

2   telecommunications services subscribed to by the subscriber based on subscriber

3   information and service information that are stored in a directory repository,

4   comprising:

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5   means for receiving a request from the subscriber to log in to the telecommunications

6   services;

7   means for authenticating the subscriber by an authentication server;

8   means for generating a privilege token associated with the subscriber by an

9   authorization service, said privilege token including subscriber privilege

10   information, wherein said authorization service is separate from said

11   authentication server;

12   means for determining whether the subscriber is allowed to automatically log into the

13   telecommunication services, said determination based on subscriber privilege

14   information in the privilege token associated with the subscriber; and

15   means for receiving, from the directory repository, a list of all services for which the

16   subscriber is then currently subscribed when the subscriber is allowed to

17   automatically log into the telecommunications services, and means for

18   automatically logging the subscriber into all services identified in the list.

1 35. (New) An apparatus as recited in Claim 34, wherein the means for automatically

2   logging the subscriber into all services identified in the list comprises:

3   means for obtaining service information that describes the services from the directory

4   repository for each of the services identified in the list; and

5   means for creating and storing a relation between a service object in the directory

6   repository that uniquely identifies and represents each of the services and

7   privileges of the subscriber, and a subscriber object that uniquely represents

8   the subscriber.

1 36. (New) An apparatus as recited in Claim 34, further comprising means for storing the

2   privilege token in a service selection gateway for use in subsequent authorization

3   processes relating to the subscriber.

1 37. (New) An apparatus for automatically subscribing a subscriber to a

2   telecommunications service based on information stored in a directory repository,

3   comprising:

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4   a network interface that is coupled to a data network that includes the directory

5   repository for receiving information therefrom;

6   a processor; and

7   one or more stored sequences of instructions which, when executed by the processor,

8   cause:

9   receiving a request from the subscriber to obtain a list of available

10   telecommunications services;

11   generating a list of only those telecommunications services for which the

12   subscriber has privileges to subscribe to, based on privilege

13   information and service information that is stored in the directory

14   repository and is associated with the subscriber, said privilege

15   information associated with the subscriber specifying what

16   telecommunications services the subscriber has privileges to subscribe

17   to;

18   receiving a subscriber selection of one of the telecommunications services

19·   from the generated list of telecommunications services;

20   verifying that the subscriber has privileges that permit the subscriber to

21   subscribe to the selected telecommunications service;

22   creating and storing updated subscription information in the directory

23   repository; and

24   generating a request to subscribe the subscriber to the selected

25   telecommunications service based on the updated subscription

26   information.

1   38.   (New) An apparatus as recited in Claim 37, wherein said privilege information

2   associated with the subscriber comprises a privilege token for the subscriber that

3   identifies a role of the subscriber, wherein the privileges of the subscriber to subscribe

4   to a telecommunications service is determined by the role in the privilege token for

5   the subscriber.

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1   39.   (New) An apparatus as recited in Claim 37, wherein the instructions that cause

2   generating the list of only those telecommunications services for which the subscriber

3   has privileges to subscribe to include instructions which, when executed by the

4   processor, cause generating and providing to the subscriber a custom display page

5   that identifies only those telecommunications services for which the subscriber has

6   privileges to subscribe to.

1   40.   (New) An apparatus for automatically subscribing a subscriber to a

2   telecommunications service based on information stored in a directory repository,

3   comprising:

4   means for receiving a request from the subscriber to obtain a list of available

5   telecommunications services;

6   means for generating a list of only those telecommunications services for which the

7   subscriber has privileges to subscribe to, based on privilege information and

8   service information that is stored in the directory repository and is associated

9   with the subscriber, said privilege information associated with the subscriber

10   specifying what telecommunications services the subscriber has privileges to

11   subscribe to;

12   means for receiving a subscriber selection of one of the telecommunications services

13   from the generated list of telecommunications services;

14   means for verifying that the subscriber has privileges that permit the subscriber to

15   subscribe to the selected telecommunications service;

16   means for creating and storing updated subscription information in the directory

17   repository; and

18   means for generating a request to subscribe the subscriber to the selected

19   telecommunications service based on the updated subscription information.

1   41.   (New) An apparatus as recited in Claim 40, wherein said privilege information

2   associated with the subscriber comprises a privilege token for the subscriber that

3   identifies a role of the subscriber, wherein the privileges of the subscriber to subscribe

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4   to a telecommunications service is determined by the role in the privilege token for

5   the subscriber.

1   42.   (New) An apparatus as recited in Claim 40, wherein the means for generating the list

2   of only those telecommunications services for which the subscriber has privileges to

3   subscribe to includes means for generating and providing to the subscriber a custom

4   display page that identifies only those telecommunications services for which the

5   subscriber has privileges to subscribe to.

1   43.   (New) An apparatus as recited in Claim 17, wherein the means for generating the

2   privilege token by the authorization service comprise:

3   means for receiving a user name associated with the subscriber and mapping the user

4   name to a distinguished name in the directory repository; and

5   means for creating and storing as subscriber privilege information in the privilege

6   token one or more roles occupied by the subscriber based on role information

7   that is stored in the directory repository, said stored role information including

8   mapping information that maps a role to one or more privileges that specify

9   which telecommunications services a subscriber having that role can subscribe

10   to.

1   44.   (New) An apparatus as recited in Claim 17, wherein the means for determining

2   whether the subscriber is currently logged in comprise means for determining

3   whether a host object that uniquely identifies the subscriber exists, wherein the

4   privilege token associated with the subscriber is stored with the host object that

5   uniquely identifies the subscriber.

1   45.   (New) An apparatus as recited in Claim 17, wherein the means for generating the

2   engagement request comprise means for subscribing the subscriber to the service by

3   creating and storing a relation of a subscriber object that programmatically represents

4   the subscriber to a service object that programmatically represents the service, and

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5   creating and storing one or more attribute values in the relation, wherein the attribute

6   values define the subscription.

1 46. (New) An apparatus as recited in Claim 18, wherein the instructions that cause

2   generating the privilege token by the authorization service comprise:

3   instructions which, when executed by the processor, cause receiving a user name

4   associated with the subscriber and mapping the user name to a distinguished

5   name in the directory repository; and

6   instructions which, when executed by the processor, cause creating and storing as

7   subscriber privilege information in the privilege token one or more roles

8   occupied by the subscriber based on role information that is stored in the

9   directory repository, said stored role information including mapping

10   information that maps a role to one or more privileges that specify which

11   telecommunications services a subscriber having that role can subscribe to.

1 47. (New) An apparatus as recited in Claim 18, wherein the instructions that cause

2   determining whether the subscriber is currently logged in comprise instructions

3   which, when executed by the processor, cause determining whether a host object that

4   uniquely identifies the subscriber exists, wherein the privilege token associated with

5   the subscriber is stored with the host object that uniquely identifies the subscriber.

1 48. (New) An apparatus as recited in Claim 18, wherein the instructions that cause

2   generating an engagement request comprise instructions which, when executed by the

3   processor, cause subscribing the subscriber to the service by creating and storing a

4   relation of a subscriber object that programmatically represents the subscriber to a

5   service object that programmatically represents the service, and creating and storing

6   one or more attribute values in the relation, wherein the attribute values define the

7   subscription.

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